

REMARKS

This amendment is filed in response to the to comply with the Notice To Comply With Requirements For Patent Applications Containing Nucleotide Sequence And/Or Amino Acid Sequence Disclosures. In accordance with sequence rules, 37 C.F.R. §§ 1.821-1.825 a disk containing the sequence(s) in computer readable form, and a paper copy of the sequence information that has been printed from the floppy disk are provided herewith. The information contained in the computer readable disk was prepared through the use of the software program "PatentIn" and is identical to that of the paper copy. The sequence listing introduces no new matter. All sequences in the listing are found in the application as filed.

If a telephone conference would expedite prosecution of this application, the Examiner is invited to telephone the undersigned at (510) 337-7871.

LAW OFFICES OF JONATHAN ALAN QUINE
P.O. BOX 458
Alameda, CA 94501
Tel: 510 337-7871
Fax: 510 337-7877

Respectfully submitted,



Tom Hunter
Reg. No: 38,498

APPENDIX A

VERSION WITH MARKINGS TO SHOW CHANGES MADE IN 09/671,764 WITH ENTRY OF
THIS AMENDMENT

In the specification:

Page 9, line 20 through page 10, line 5:

--Pentagastrin (N-t-butyloxycarbonyl-Beta-alanyl-L-tryptophyl-L-methionyl- L-aspartyl-L-phenyl-alanyl amide, SEQ ID NO:1) is a pentapeptide containing a gastrin carboxyl terminal tetrapeptide, the active portion found in essentially all natural gastrins. Pentagastrin is a colorless crystalline solid soluble in dimethylformamide and dimethylsulfoxide; it is almost insoluble in water, ethanol, ether, benzene, chloroform, and ethyl acetate. Pentagastrin contains the C-terminal tetrapeptide responsible for the actions of the natural gastrins and, therefore, acts as a physiologic gastric acid secretagogue. The recommended dose of 6 µg/kg subcutaneously (in applications where increased gastric acid secretion is desired) produces a peak acid output which is reproducible when used in the same individual. Pentagastrin stimulates gastric acid secretion approximately ten minutes after subcutaneous injection, with peak responses occurring in most cases twenty to thirty minutes after administration. Pentagastrin is typically used as a diagnostic agent for evaluation of gastric acid secretory function. In one preferred formulation, pentagastrin is formulated with sodium chloride and water for injection. The pH is typically adjusted with ammonium hydroxide and or hydrochloric acid. In one commercially available formulation, each ml of injection contains 0.25 mg (250 mcg) pentagastrin along with 8.8 mg sodium chloride and water for injection, USP.--

Page 10, line 11-18:

-- Thus, in addition to gastrin and pentagastrin, this invention contemplates the use of gastrin or pentagastrin analogues or derivatives. Such analogues or derivatives are well known to those of skill in the art. Such variants include, but are not limited to the 34-, 17-, and 14-amino acid species of gastrin, and other truncation variants comprising the active C-terminal tetrapeptide (TrpMetAspPhe-NH₂, SEQ ID NO:2) which is reported in the literature to have full pharmacological activity (see Tracey and Gregory (1964) *Nature (London)*, 204: 935). Also included are variants of gastrin and/or truncated gastrins where native amino acids are replaced with conservative substitutions. Also included are various

analogues of these molecules, including, but not limited to the N-protected derivative Boc-TrpMetAspPhe-NH₂ (SEQ ID NO:3) --